

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		10595283
	Filing Date		2004-09-16
	First Named Inventor	Bocang QIU	
	Art Unit	2828	
	Examiner Name	not yet assigned	
	Attorney Docket Number	35832.000124	

U.S.PATENTS							Remove
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	
on	1	5812578	A	1998-09-22	Schemmann et al.		
	2	5289484	A	1994-02-22	Hayakawa et al.		
	3	6961358	B2	2005-11-01	Erbert et al.		
	4	5815521	A	1998-09-29	Hobson et al.		
	5	5923689	A	1999-07-13	Su et al.		
↓	6	6141363	A	2000-10-31	Ougazzaden et al.		

If you wish to add additional U.S. Patent citation information please click the Add button.

Add

## U.S.PATENT APPLICATION PUBLICATIONS

Remove

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
-------------------	---------	--------------------	------------------------	------------------	---	--

On pin

8/27/07

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		10595283
Filing Date		2004-09-16
First Named Inventor	Bocang QIU	
Art Unit	2828	
Examiner Name	not yet assigned	
Attorney Docket Number	35832.000124	

1						
---	--	--	--	--	--	--

If you wish to add additional U.S. Published Application citation information please click the Add button.

**FOREIGN PATENT DOCUMENTS**

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
ON	1	01/06608	WO	A1	2001-01-25	Agilent Technologies		<input type="checkbox"/>
ON	2	0547044	EP	A2	1993-06-16	Mitsubishi Denki K. K.		<input type="checkbox"/>
ON	3	02/25787	WO	A1	2002-03-28	Erbert et al.		<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button.

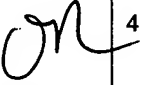
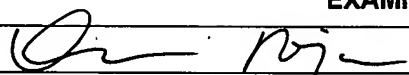
**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
ON	1	YANG, G. et al., "Design and fabrication of 980nm InGaAs/AlGaAs quantum well lasers with low beam divergence", SPIE Vol. 2886, pp. 258 - 263 (1996).	<input type="checkbox"/>
ON	2	YEN, S. et al., "Semiconductor lasers with unconventional cladding structures for small beam divergence and low threshold current", Optical and Quantum Electronics Vol. 28, pp. 1229-1238 (1996).	<input type="checkbox"/>
ON	3	YEN, S. et al., "980 nm InGaAs/AlGaAs quantum well lasers with extremely low beam divergence", Proc. of 15th IEEE International Semiconductor Laser Conference, pp. 13 - 14 (1996).	<input type="checkbox"/>

ON Boj

8/27/07

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		10595283
	Filing Date		2004-09-16
	First Named Inventor	Bocang QIU	
	Art Unit	2828	
	Examiner Name	not yet assigned	
	Attorney Docket Number	35832.000124	

	4 UK Patent Office, Search Report for GB 0323905.0 issued 9 November 2004	<input type="checkbox"/>
If you wish to add additional non-patent literature document citation information please click the Add button <input type="button" value="Add"/>		
<b>EXAMINER SIGNATURE.</b>		
Examiner Signature		Date Considered 8/27/07
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		
<small> <sup>1</sup> See Kind Codes of USPTO Patent Documents at <a href="http://www.USPTO.GOV">www.USPTO.GOV</a> or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.         </small>		

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		10595283
	Filing Date		2004-09-16
	First Named Inventor	Bocang QIU	
	Art Unit		
	Examiner Name		
	Attorney Docket Number		305832-00124

U.S.PATENTS							Remove
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	
OR	1	6028877	A	2000-02-22	NEC Corporation		
	2	4794611	A1	1988-12-27	Canon KK		
	3	5923689	A	1999-07-13	Su et al.		
	4	5815521	A	1998-09-29	Vakhshoori et al.		

If you wish to add additional U.S. Patent citation information please click the Add button.

Add

## U.S.PATENT APPLICATION PUBLICATIONS

Remove

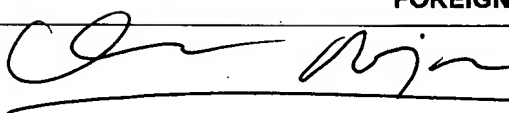
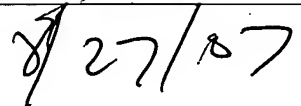
Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	
OR	1	20010028668	A1	2001-10-11	Fukunaga et al.		
OR	2	20040047378	A1	2004-03-11	Erbert et al.		

If you wish to add additional U.S. Published Application citation information please click the Add button.


Add

## FOREIGN PATENT DOCUMENTS

Remove

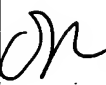

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		10595283	
	Filing Date		2004-09-16	
	First Named Inventor	Bocang QIU		
	Art Unit			
	Examiner Name			
	Attorney Docket Number		305832-00124	

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup> i	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1	61-156788	JP	A1			translation of abstract only	<input checked="" type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button [Add](#)

#### NON-PATENT LITERATURE DOCUMENTS


[Remove](#)

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1	WENZEL, H. et al., "High-power diode lasers with small vertical beam divergence emitting at 808nm", ELECTRONICS LETTERS, Vol. 37, No. 16, pp. 1024-1026 (August 2, 2001), Great Britain	<input type="checkbox"/>
	2	NAYAR, B. K. et al., "Novel high-power narrow-beam divergence tapered laser arrays at 980 nm", TECHNICAL DIGEST, CONFERENCE ON LASERS AND ELECTRO-OPTICS, San Francisco, CA, May 3, 1988, pp. 39 - 40	<input type="checkbox"/>
	3	VAKHSHOORI, D. et al., "980 nm spread index laser with strain compensated InGaAs/GaAsP/InGaP and 90% fibre coupling efficiency", ELECTRONICS LETTERS Vol. 32, No. 11, May 23, 1996, pp. 1007-1008, Great Britain	<input type="checkbox"/>
	4	LAY, T.S. et al., "Electro-modulation spectroscopy and laser performance of an InGaAsP asymmetric multi-quantum-well structure", OPTICS COMMUNICATIONS, Vol. 211, No. 1 - 6, October 1, 2002, pp. 289-294, North-Holland Publishing Co., Amsterdam, Netherlands	<input type="checkbox"/>
	5	BUDA, M. et al., "Asymmetric design of semiconductor laser diodes: thin p-clad and low divergence InGaAs/AlGaAs/GaAs devices", 15TH ANNUAL MEETING OF THE IEEE LASERS AND ELECTRO-OPTICS SOCIETY, Vol. 1 of 2, pp. 647 - 648, Glasgow, Scotland, Nov. 13, 2002	<input type="checkbox"/>
	6	SMOWTON, P. M., et al., '650 nm lasers with narrow far-field divergence with integrated optical mode expansion layers", IEEE J. OF SELECTED TOPICS IN QUANTUM ELECTRONICS, Vol. 5, No. 3, May 1999, pp. 735 - 739	<input type="checkbox"/>
	7	EUROPEAN PATENT OFFICE acting as the IPSA, Written Opinion in Appln. No. PCT/GB2004/003959, issued 18 April 2006	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button [Add](#)

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number	10595283
	Filing Date	2004-09-16
	First Named Inventor	Bocang QIU
	Art Unit	
	Examiner Name	
	Attorney Docket Number	305832-00124

**EXAMINER SIGNATURE.**

Examiner Signature		Date Considered	8/27/07
--------------------	---	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.